BROADBAND INTERFERENCE CANCELLATION Abstract

A method and apparatus are provided for broadband cancellation of

interference signals. A signal transmitted on one communication path acts as an
interference signal to a receiver on a second communication path in the system. In
an embodiment, a signal transmitted from an antenna using one wireless standard, or
protocol, acts as an interference signal for another antenna, co-located in the same
system, using another wireless standard, or protocol, and operating in the same or
nearby frequency bands. A time delay is applied to a signal sampled from the
interference signal to provide substantially broadband cancellation of the
interference signal. The sampled signal may be attenuated to match the amplitude
of the interference signal on the second communication path. Coupling of the
sampled signal from one communication path to the other communication path can
provide an 180° phase shift to the sampled signal.

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